Mindluster Platform

# About the course Antibodies structure

### Course Presenter : Shomu s Biology

Antibodies structure course in hindi, in this course we will learn about the molecular architecture of antibodies, key components of the adaptive immune system. Youâ€™ll explore their Y-shaped structure, composed of two heavy chains and two light chains connected by disulfide bonds. The course covers the variable and constant regions, focusing on how the variable region enables antigen specificity through unique binding sites. We'll also discuss antibody classes (IgG, IgA, IgM, IgE, IgD) and how their structures relate to different immune functions. Visual aids and 3D models will help you understand how structural features like the Fab and Fc regions contribute to immune responses such as neutralization, opsonization, and complement activation. Whether you're a student of biology, immunology, or medicine, this course builds a strong foundation in understanding how antibodies work at the molecular level. Join us and explore the fascinating design of the bodyâ€™s natural defenders. Shomu s Biology

**Medical Category's Courses**

# Course Lesson(22)

Lesson 1 : **Inflammation animation Steps of inflammatory response Shomu s Biology**

Lesson 2 : **Alternative pathway of complement activation Complement system Shomu s Biology**

Lesson 3 : **Type 2 hypersensitivity reaction animation Shomu s Biology**

Lesson 4 : **Classical pathway of complement activation Classical complement system**

Lesson 5 : **Type 1 hypersensitivity reaction mechanism Shomu s Biology**

Lesson 6 : **Hypersensitivity reactions microbiology Type 1 type 2 Type 3 and Type 4 classification**

Lesson 7 : **Cytokines and their role in immune regulation interleukins and chemokines functions**

Lesson 8 : **Antibodies structure and functions Types of antibodies immunoglobulins strcture**

Lesson 9 :
**Immune response microbiology Primary immune response and secondary immune response**

Lesson 10 : **Humoral immune response Antibody mediated immune response Shomu s Biology**

Lesson 11 : **Cell mediated immunity Cellular immune response mechanism Shomu s Biology**

Lesson 12 : **List of Interleukins and their functions Shomu s Biology**

Lesson 13 : **MHC class 2 structure and function Major histocompatibility complex 2**

Lesson 14 :
**MHC class 1 structure and function Major histocompatibility complex 1 lecture Shomu s Biology**

Lesson 15 : **B cells maturation activation and differentiation Shomu s Biology**

Lesson 16 : **T cell activation and differentiation T helper cell and cytotoxic T cell Shomu s Biology**

Lesson 17 : **Neutrophils structure and function explained Cells of immune system Shomu s Biology**

Lesson 18 : **Dendritic cells immunology lecture Cells of immune system Shomu s Biology**

Lesson 19 : **Eosinophil cells of immune system Structure and function of eosinophil in immunity**

Lesson 20 : **Basophils and mast cells Cells of immune system Shomu s Biology**

Lesson 21 : **Natural killer cells immunology NK cells structure and function Role in immunity**

Lesson 22 : **Macrophage structure and function Cells of immune system Shomu s Biology**

# Related courses

**Infection Control**

**Male Reproductive**

**Anatomy**

**Pharynx**

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**General Embryology**

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